

Mendel's Work Notes Review

Name: _____ Date: _____

Table: _____ Section: _____

- 1) In Mendel's cross for stem height, what contrasting traits did the pea plants in the P generation exhibit?

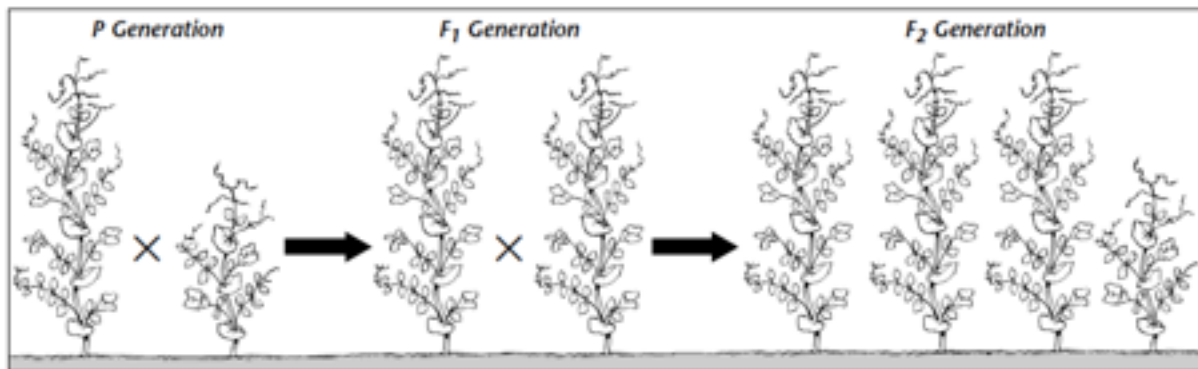
- 2) What trait or traits did the plants in the F₁ generation exhibit? When you think of the traits of the paren plants, why would this result be surprising to Mendel?

- 3) What is a dominant and recessive allele?

- 4) Explain how dominant and recessive alleles for the trait of stem height determine whether a pea plant will be tall or short.

- 5) Can a short pea plant ever be a hybrid for the trait of stem height? Why or why not? As part of your explanation, write the letters that represent the alleles for stem height of a short pea plant.

Performance Task: Mendel's Pea Plants



1. What trait in pea plants is being studied in the cross above?
2. What are the two alleles of this trait?
3. Which allele is the dominant allele? Explain how you know.
4. Which allele is the recessive allele? Explain.
5. What alleles do the F₁ offspring have? Explain which allele was inherited from which parent.